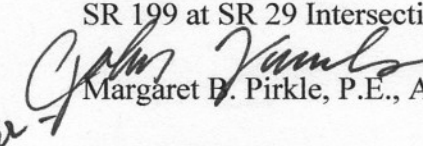


**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE** P. I. No. 0005831, Laurens County **OFFICE** Preconstruction  
CSSTP-0005-00(831)  
SR 199 at SR 29 Intersection Improvements **DATE** May 19, 2005  
**FROM**  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction  
**TO** SEE DISTRIBUTION

**SUBJECT PROJECT CONCEPT REPORT APPROVAL**

Attached for your files is the approval for subject project.

MBP/cj

Attachment

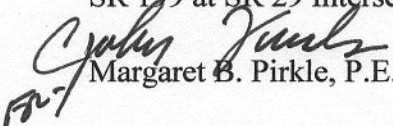
**DISTRIBUTION:**

David Mulling  
Harvey Keepler  
Ken Thompson  
Jamie Simpson  
Michael Henry  
Keith Golden  
Joe Palladi (file copy)  
Paul Liles  
Babs Abubakari  
Mike Thomas  
BOARD MEMBER

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE

**FILE** P.I. No. 0005831, Laurens County **OFFICE** Preconstruction  
 CSSTP-0005-00(831)  
 SR 199 at SR 29 Intersection Improvements **DATE** May 11, 2005

**FROM**  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

**TO** David E. Studstill, Jr., P.E., Chief Engineer

**SUBJECT** PROJECT CONCEPT REPORT

This project is the intersection improvements on SR 199 at 29/Oakwood Drive in the city of East Dublin. State Route 29 and SR 199 are currently two lane roadways with urban shoulders. State Route 199 currently intersects SR 29 at a skewed alignment. The intersection has operational deficiencies due to the substandard horizontal alignment. The base year (2013) traffic volumes on SR 29 is 11,800 VPD and future volumes are expected to be 17,600 VPD in the year 2033. Traffic operations will continue to deteriorate due to volume increases unless improvements are made.

The construction proposes to realign SR 199 to intersect SR 29 perpendicularly, eliminating the current skewed intersection. The typical section for both roadways will consist of three, 12' lanes with urban shoulders, a 14' left turn lane, and 5' sidewalks. Traffic will be maintained during construction.

Environmental concerns include requiring a Categorical Exclusion be prepared; a public hearing open house is not required; time saving procedures are appropriate.

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C and inflation)	\$890,000	\$500,000	Q20	2011
Right-of-Way	\$ 83,000	\$ 82,000	Q20	2007
Utilities*	\$139,000	-----		

\*LGPA sent requesting East Dublin do utilities 7-25-03.

David Studstill

Page 2

P. I. No. 0005831, Laurens

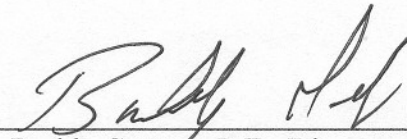
May 11, 2005

I recommend this project concept be approved.

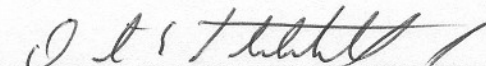
MBP:JDQ/cj

Attachment

CONCUR

  
Buddy Gratton, P.E., Director of Preconstruction

APPROVE

  
David E. Studstill, Jr., P.E., Chief Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

-----  
**INTERDEPARTMENTAL CORRESPONDENCE**

**FILE:** CSSTP-0005-00(831) Laurens  
P.I. No.: 0005831  
S.R. 199 Intersection Improvements

**OFFICE:** Engineering Services

**DATE:** May 5, 2005

**FROM:** David Mulling, Project Review Engineer *REW*

**TO:** Meg Pirkle, Assistant Director of Preconstruction

**SUBJECT: CONCEPT REPORT**

We have reviewed the Concept Report submitted April 15, 2005 by the letter from Alan Smith dated April 14, 2005, and have no additional comments.

The costs for this project are:

Construction	\$673,650
Inflation	\$134,730
E&C	\$80,838
Reimbursable Utilities	\$138,400
Right of Way	\$82,300

REW

c: Mike Thomas, Attn. Alan Smith, Tennille



**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
PROJECT CONCEPT REPORT**

*District Two Design Office*

Project Number: *STP-0005-00 (831)*

County: *Laurens*

P. I. Number: *0005831*

Federal Route Number: *None*

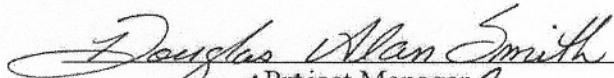
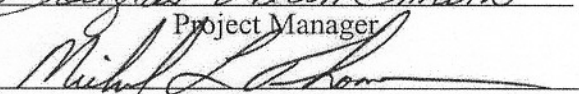
State Route Number: *SR 199*

County Road Number: *None*

Recommendation for approval:

DATE *4-14-05*

DATE *4-14-05*

  
\_\_\_\_\_  
Project Manager  
  
\_\_\_\_\_  
District Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Programming Engineer

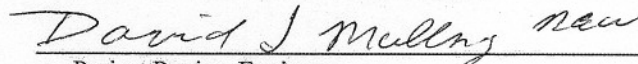
DATE \_\_\_\_\_

\_\_\_\_\_  
State Environmental/Location Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Traffic Safety and Design Engineer

DATE *5/5/05*

  
\_\_\_\_\_  
Project Review Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Bridge & Structural Design Engineer

## SCORING RESULTS AS PER MOG 2440-2

<b>Project Number:</b> CSSTP-0005-00(831)		<b>County:</b> Laurens		<b>PI No.:</b> 0005831	
<b>Report Date:</b> April 14, 2005		<b>Concept By:</b> DOT Office: District 2			
<input checked="" type="checkbox"/> Concept Stage		Consultant: N/A			
<b>Project Type:</b> Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor		<input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural	
				<input type="checkbox"/> ATMS <input type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input checked="" type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous	
<b>FOCUS AREAS      SCORE      RESULTS</b>					
<b>Presentation</b>		100			
<b>Judgment</b>		100			
<b>Environmental</b>		100			
<b>Right of Way</b>		100			
<b>Utility</b>		100			
<b>Constructability</b>		100			
<b>Schedule</b>		100			

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
PROJECT CONCEPT REPORT**

*District Two Design Office*

Project Number: *STP-0005-00 (831)*

County: *Laurens*

P. I. Number: *0005831*

Federal Route Number: *None*

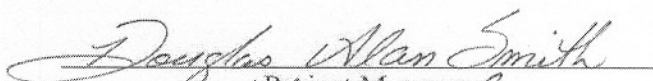
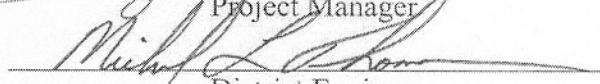
State Route Number: *SR 199*

County Road Number: *None*

Recommendation for approval:

DATE *4-14-05*

DATE *4-14-05*

  
Project Manager  
  
District Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Programming Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Environmental/Location Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

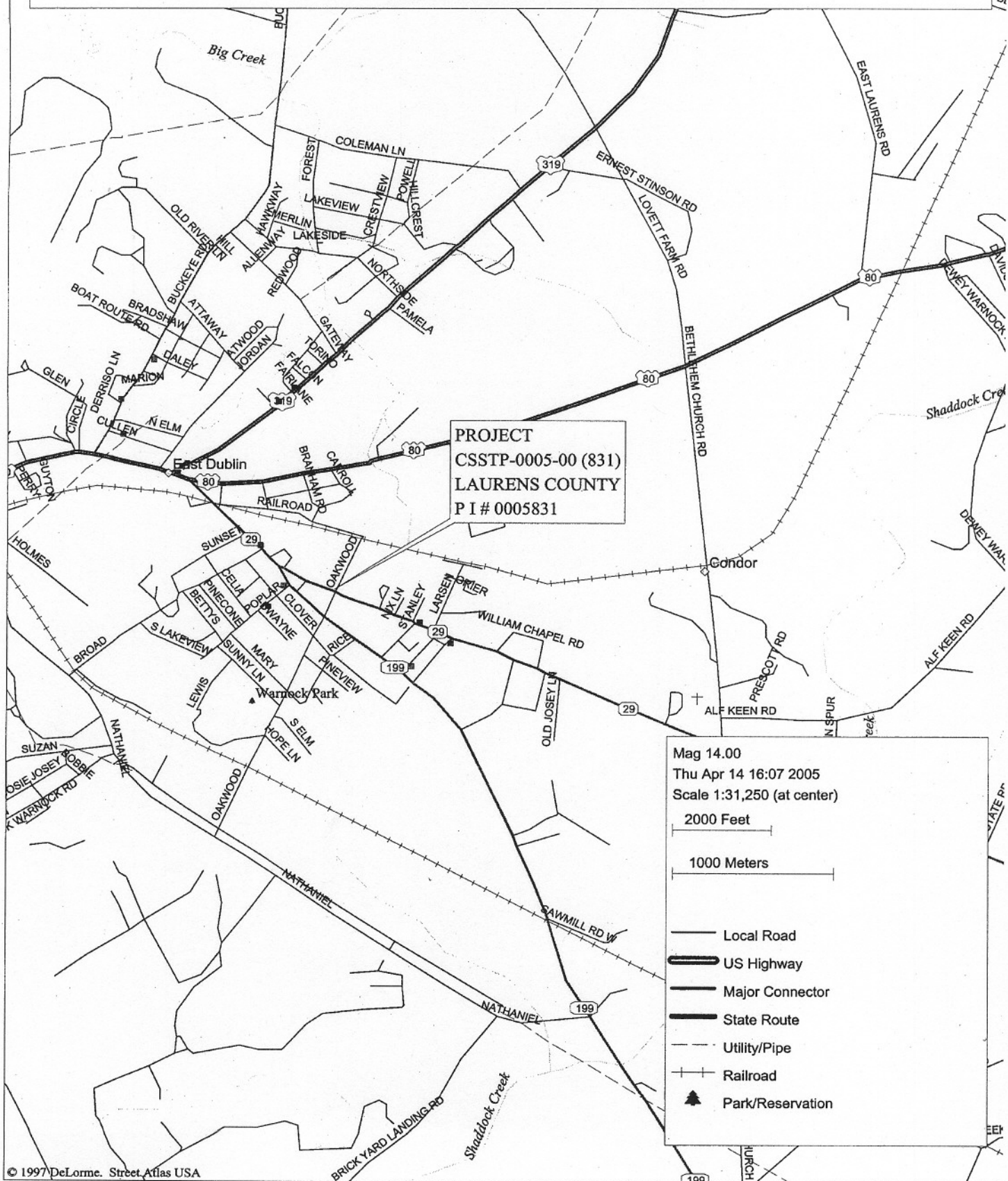
\_\_\_\_\_  
Project Review Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Bridge & Structural Design Engineer



# PROJECT LOCATION MAP





Project Concept Report page Two  
Project Number: STP-0005-00 (831)  
P. I. Number: 0005831  
County: Laurens

**Need and Purpose:** *This project is located in the City of East Dublin at the intersection of Oakwood Drive and S.R. 199. The functional classification of S.R. 199 in this area is Urban Minor Arterial. The existing intersection of S.R. 199 and S.R. 29 is of poor horizontal alignment. S.R. 199 approaches S.R. 29 at such an acute angle that drivers have to turn almost 180 degrees to see vehicles that are approaching from the east. Also, large trucks cannot make the turn from SR 199 to SR 29 east. The purpose of this project is to realign SR 199 to a 90 degree angle at SR 29 and provide larger radii with left turn bays to improve safety and improve traffic flow.*

**Description of the proposed project:** *This project consists of the realignment of S.R. 199 along Oakwood Drive to the intersection of S.R. 29 in the City of East Dublin.*

**Is the project located in a Non-attainment area?** ☐ Yes ☒ No

**PDP Classification:**

Full Oversight ☐, Exempt ☒, State Funded ☐, or Other ☐

**Functional Classification:** *Urban Minor Arterial*

**U. S. Route Number(s):** *None*  
**County Road Number(s):** *512*

**State Route Number(s):** *199*

**Traffic (AADT):**

**S.R. 199 DATA**

Current Year: 2600 (2013) Design Year: 6400 (2033)

**S.R. 29 DATA**

Current Year: 11800 (2013) Design Year: 17600 (2033)

**Existing design features:**

- Typical Section: 2 - 12 foot Asphaltic Concrete lanes with 8 foot shoulders consisting of curb and gutter with grassed shoulders. (No Sidewalk)
- Posted speed: 40 M.P.H. Maximum degree of curvature: 1° 00' 00"
- Maximum grade: 2.98%
- Width of right of way: 100 Feet
- Major structures: NA
- Sufficiency Rating: NA
- Major interchanges or intersections along the project: NA
- Existing length of roadway: 0.81 miles

**Proposed Design Features:**

- Proposed typical section(s): *2 - 12 foot Asphalt travel lanes with 10 foot urban shoulders*
- Proposed Design Speed Mainline: *45 M.P.H.*
- Proposed Maximum grade Mainline: *3%*
- Maximum grade allowable Mainline: *6%*
- Proposed Maximum grade Side Street: *3%*
- Maximum grade allowable on Side Streets: *9%*
- Proposed Maximum grade driveway: *15%*
- Proposed Maximum degree of curve: *9 Degree*
- Maximum degree allowable: *9 Degree*
- Right of way
  - Width: *100 Feet*
  - Easements: Temporary ☒, Permanent ☐, Utility ☐, Other ☐.
  - Type of access control: Full ☐, Partial ☐, By Permit ☒, Other ☐.
  - Number of parcels: *6*      Number of displacements: *0*
    - Business: 0
    - Residences: 0
    - Mobile homes: 0
    - Other: 0
- Structures:
  - Bridges: *NA*
  - Retaining walls: *NA*
- Major intersections and interchanges: *NA*
- Traffic control during construction: *Traffic will be maintained on the existing alignments during construction.*
- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ROADWAY WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SHOULDER WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VERTICAL GRADES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CROSS SLOPES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
STOPPING SIGHT DISTANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SUPERELEVATION RATES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HORIZONTAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SPEED DESIGN:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VERTICAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE STRUCTURAL CAPACITY:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- Design Variances: *None*
- Environmental concerns: *There are 2 possible historic sites, 1 - Potential UST site and 1 - Potential Hazardous Waste Site.*

Project Concept Report Page Three  
Project Number: STP-0005-00 (831)  
P. I. Number: 0005831  
County: Laurens

- Anticipated Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes ☒, No ☐,
  - Categorical exclusion ☒,
  - Environmental Assessment/Finding of No Significant Impact (FONSI) ☐, or
  - Environmental Impact Statement (EIS) ☐.
- Utility involvements:
  - Telephone - *BellSouth Telecommunications, Inc.*
  - Power – *Georgia Power Company*
  - Water – *City of East Dublin*
  - Sewer – *City of East Dublin*
  - Gas - *None*
  - Cable TV – *Charter Communications*

**Project responsibilities:**

- Design: *GDOT District Two*
- Right of Way Acquisition: *GDOT District Two*
- Relocation of Utilities: *GDOT District Two*
- Letting to contract: *GDOT Contracts Administration*
- Supervision of construction: *GDOT Dublin Area Engineer's Office*
- Providing material pits: *Contractor*
- Providing detours: *Contractor*

**Coordination**

- Concept meeting date: *April 11, 2005*
- P. A. R. meetings: *NA*
- FEMA, USCG, and/or TVA: *NA*
- Public involvement: *None*
- Local government commitments: *A LGPA has been sent to the local government requesting that they participate in the reimbursable utility costs.*
- Other projects in the area: *None*

**Scheduling – Responsible Parties' Estimate**

- Time to complete the environmental process: *1 Year*
- Time to complete preliminary construction plans: *6 months*
- Time to complete right of way plans: *3 months*
- Time to complete the Section 404 Permit: *1 Year*
- Time to complete final construction plans: *6 months*
- Time to complete to purchase right of way: *1 Year*

Project Concept Report Page Four  
Project Number: STP-0005-00 (831)  
P. I. Number: 0005831  
County: Laurens

**Other alternates considered:**

1. *No Build*

**Comments:** *This office recommends that this concept be approved as written.*

**Attachments:**

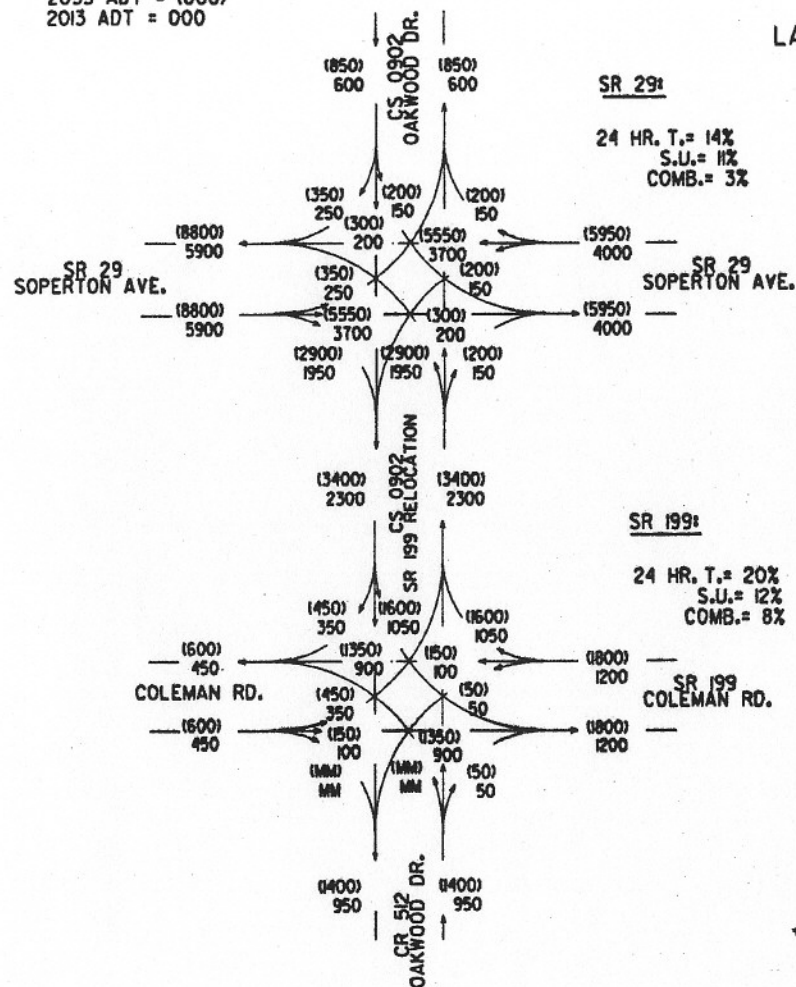
1. Traffic Data
2. Cost Estimates:
  - a. Construction including E&C
  - b. Utilities
3. Typical section
4. Pavement Design
5. Location and Design Notice



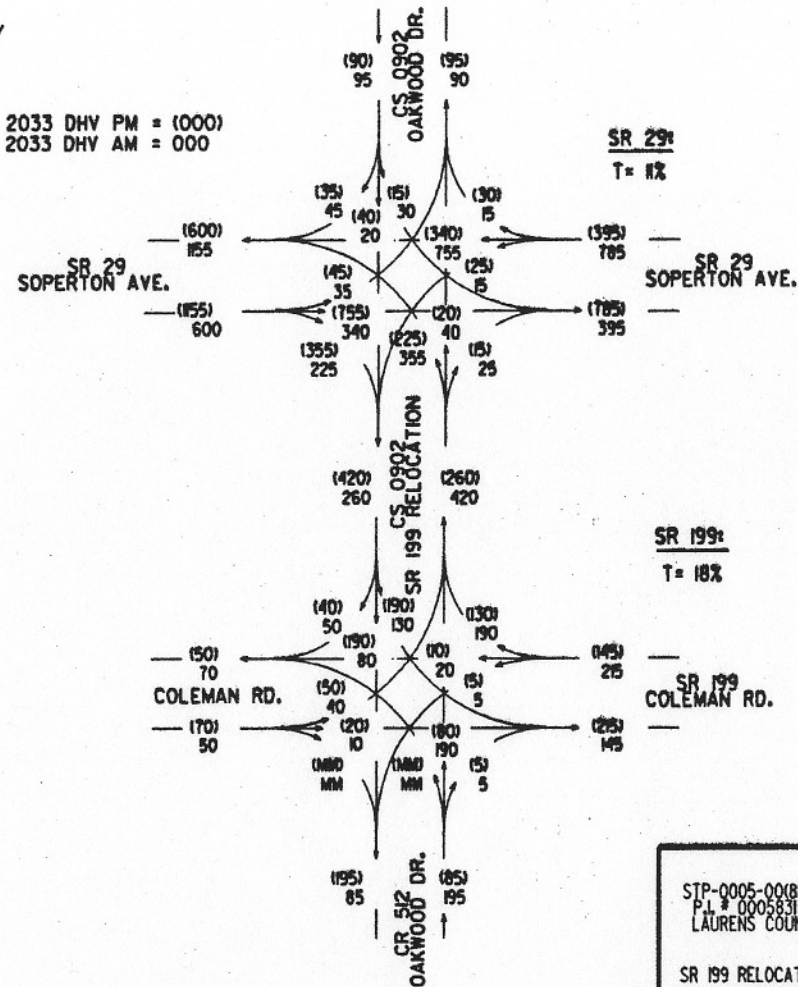
## LAURENS COUNTY



2033 ADT = (000)  
2013 ADT = 000



2033 DHV PM = (000)  
2033 DHV AM = 000



STP-0005-00(831)  
P.L. # 0005831  
LAURENS COUNTY

SR 199 RELOCATION  
ALONG OAKWOOD DRIVE  
AND SR 29

SHS  
3/82

**CSSTP-0005-00 (831) Laurens County, P.I. # 0005831**

Realignment of SR 199 along Oakwood Drive in the City of East Dublin

**Section ROADWAY**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1.00	LS	50000.00	TRAFFIC CONTROL - CSSTP-0005-00(841)	50000.0
201-1500	1.00	LS	25000.00	CLEARING & GRUBBING -	25000.0
205-0001	7300.00	CY	3.36	UNCLASS EXCAV	24528.0
206-0002	4000.00	CY	4.96	BORROW EXCAV, INCL MATL	19840.0
310-1101	2900.00	TN	13.82	GR AGGR BASE CRS, INCL MATL	40078.0
318-3000	400.00	TN	15.63	AGGR SURF CRS	6252.0
402-1812	550.00	TN	38.76	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	21318.0
402-3121	1200.00	TN	36.42	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	43704.0
402-3131	1120.00	TN	36.81	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL	41227.20
402-3190	600.00	TN	39.21	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	23526.0
413-1000	870.00	GL	0.96	BITUM TACK COAT	835.19
432-5010	500.00	SY	1.45	MILL ASPH CONC PVMT, VARIABLE DEPTH	725.0
441-0018	40.00	SY	34.01	DRIVEWAY CONCRETE, 8 IN TK	1360.39
441-0104	5200.00	SY	22.64	CONC SIDEWALK, 4 IN	117728.0
441-0303	3.00	EA	1441.67	CONC SPILLWAY, TP 3	4325.01
441-6222	9320.00	LF	10.93	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	101867.59
446-1002	2330.00	LF	2.97	PVMT REINF FABRIC STRIPS, TP 2, INCL BITUM BINDER	6920.1
550-1180	400.00	LF	28.02	STORM DRAIN PIPE, 18 IN, H 1-10	11208.0
550-1240	300.00	LF	32.87	STORM DRAIN PIPE, 24 IN, H 1-10	9861.0
550-4218	6.00	EA	403.32	FLARED END SECTION 18 IN, STORM DRAIN	2419.92
550-4224	4.00	EA	474.26	FLARED END SECTION 24 IN, STORM DRAIN	1897.04
634-1200	18.00	EA	84.45	RIGHT OF WAY MARKERS	1520.10
668-1100	6.00	EA	1718.35	CATCH BASIN, GP 1	10310.09
668-2100	8.00	EA	1996.99	DROP INLET, GP 1	15975.92
<b>Section Sub Total:</b>					<b>\$582,426.59</b>

**Section EROSION CONTROL**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
700-6910	5.13	AC	766.52	PERMANENT GRASSING	3932.24
700-7000	11.00	TN	56.82	AGRICULTURAL LIME	625.02
700-7010	13.00	GL	19.38	LIQUID LIME	251.94
700-8000	5.00	TN	224.44	FERTILIZER MIXED GRADE	1122.2
700-8100	513.00	LB	1.43	FERTILIZER NITROGEN CONTENT	733.58
715-2200	2000.00	SY	1.95	BITUMINOUS TREATED ROVING, WATERWAYS	3900.0
716-2000	4000.00	SY	1.12	EROSION CONTROL MATS, SLOPES	4480.0
<b>Section Sub Total:</b>					<b>\$15,045.00</b>

**Section TEMPORARY EROSION CONTROL**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	5.15	AC	462.63	TEMPORARY GRASSING	2382.54
163-0240	102.00	TN	190.18	MULCH	19398.36
163-0300	4.00	EA	1099.25	CONSTRUCTION EXIT	4397.0
163-0520	500.00	LF	12.12	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	6060.0
163-0550	16.00	EA	177.79	CONSTRUCT AND REMOVE INLET	2844.64

				SEDIMENT TRAP	
165-0030	2330.00	LF	1.19	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	2772.7
165-0101	4.00	EA	350.26	MAINTENANCE OF CONSTRUCTION EXIT	1401.04
165-0105	16.00	EA	82.00	MAINTENANCE OF INLET SEDIMENT TRAP	1312.0
167-1000	2.00	EA	2166.87	WATER QUALITY MONITORING AND SAMPLING	4333.74
167-1500	12.00	MO	776.63	WATER QUALITY INSPECTIONS	9319.56
171-0030	4660.00	LF	3.06	TEMPORARY SILT FENCE, TYPE C	14259.6
<b>Section Sub Total:</b>					<b>\$68,481.18</b>

<b>Section SIGNING AND MARKING</b>					
<b>Item Number</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Price</b>	<b>Item Description</b>	<b>Cost</b>
636-1020	140.00	SF	13.15	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	1841.0
636-1031	63.00	SF	17.24	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6	1086.12
636-2070	200.00	LF	6.71	GALV STEEL POSTS, TP 7	1342.0
652-0110	9.00	EA	37.16	PAVEMENT MARKING, ARROW, TP 1	334.43
652-5451	9720.00	LF	0.12	SOLID TRAFFIC STRIPE, 5 IN, WHITE	1166.39
652-5452	10120.00	LF	0.13	SOLID TRAFFIC STRIPE, 5 IN, YELLOW	1315.60
652-5701	120.00	LF	2.20	SOLID TRAF STRIPE, 24 IN, WHITE	264.0
652-9001	32.00	SY	1.56	TRAFFIC STRIPE, WHITE	49.92
652-9002	32.00	SY	1.26	TRAFFIC STRIPE, YELLOW	40.32
654-1001	40.00	EA	3.20	RAISED PVMT MARKERS TP 1	128.0
654-1003	40.00	EA	3.20	RAISED PVMT MARKERS TP 3	128.0
<b>Section Sub Total:</b>					<b>\$7,695.80</b>

**Total Estimated Cost: \$673,648.57**

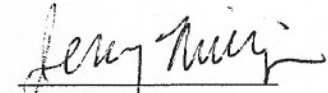
<b>Subtotal Construction Cost</b>	<b>\$673,648.57</b>
E&C Rate 10 %	\$67,364.86
Inflation Rate 5 % @ 6 Years	\$252,015.44
<hr/>	
<b>Total Construction Cost</b>	<b>\$993,028.87</b>
Right Of Way	\$82,300.00
ReImb. Utilities	\$138,400.00
<hr/>	
<b>Grand Total Project Cost</b>	<b>\$1,213,728.87</b>







# Preliminary Right of Way Cost Estimate



**Don Brown**  
Right of Way Administrator  
By: Jerry Milligan

**Date:** December 16, 2004

**Project:** STP-0005-00(831)Laurens

**Existing/Required R/W:** Varies/Varies

**Project Termini:** Realignment of SR 199 along Oakwood Drive to SR 29

**Project Description:** Realignment of SR 199 along Oakwood Drive to SR 29

**P.I. Number:** 0005831

**No. Parcels:** 6

**Land:** Agricultural / Residential 1.74 acres @ \$ 5,000 / acre \$ 8,700

**Improvements :** sign, misc. site improvements 15,000

**Relocation:** Residential ( 0 )  
Commercial ( 0 ) 0

**Damage :** Proximity ( 0 ) parcel 0

**Net Cost** \$ 23,700

<b>Net Cost</b>		\$ 23,700
<b>Scheduling Contingency</b>	55 %	19,035
<b>Adm/Court Cost</b>	60 %	22,041
<b>Inflation Factor</b>	40 %	23,510
		<u>\$ 82,286</u>

**Total Cost \$ 82,300**

## Laurens County Land Sales

<u>Highest &amp; Best Use</u>	<u>Size (acres)</u>	<u>Value/ac</u>	<u>Sales price</u>
Agricultural / Residential	35.400	\$ 6,000.00	\$ 212,400
	15.600	\$ 5,120.00	\$ 79,867
	200.000	\$ 5,000.00	\$ 1,000,000
	192.000	\$ 4,510.00	\$ 866,000

10'-0" Shoulder

5'-0" Sidewalk

2'-6" Travel Lane

14'-0" Turn Lane

12'-0" Travel Lane

0'-0" TO 2'-0" VARI

10'-0" Shoulder

5'-0" Sidewalk

2'-6" Travel Lane

8' X30' CURB / GUTTER, T 2'

9.5 mm SUPERPAVE  
19 mm SUPERPAVE  
25mm SUPERPAVE

GRADED AGGREGATE BASE CRS. INCL MATL

2:1 MAX

2:1 MAX

4' SIDEWALK

GRADED AGGREGATE BASE CRS, INCL MATL.

# FLEXIBLE PAVEMENT DESIGN ANALYSIS

County: Laurens

P.I. no.: 0005831

**Description:** Relocation of S.R. 199 along Oakwood Street to SR 29

**Traffic Data** (NOTE: AADTs are one-way)

24-hour Truck Percentage: 20.00%

ADT initial year of design period: 2,300 vpd (2013)

AAADT final year of design period: 3,400 vpd (2033)

Mean AADT (one-way): 2,850 vpd

## Design Loading

Mean AADT	LDF	Trucks	18-K ESAL	Total Daily Loads
2,850 *	1.00 *	0.200 *	0.95	= 542

Total predicted design period loading =  $542 * 20 * 365 = 3,956,600$

## Design Data

Terminal Serviceability Index: 2.50

Soil Support: 3.50

Regional Factor: 1.40

### PROPOSED FLEXIBLE PAVEMENT STRUCTURE

Material	Thickness		Structural Coefficient	Structural Value
	mm	(in.)		
9.5 mm Superpave	32	(1.26)	0.0173	0.55
19 mm Superpave	50	(1.97)	0.0173	0.86
25 mm Superpave	32	(1.26)	0.0173	0.55
	93	(3.66)	0.0118	1.10
Graded Aggregate Base	200	(7.87)	0.0063	1.26
Required SN = 4.80			Proposed SN = 4.32	

>>> Proposed pavement is 10.1% Underdesign <<<

## Remarks :

Prepared by Douglas Alan Smith - Dist Design Engr March 4, 2005  
Date \_\_\_\_\_

Recommended	State Materials & Research Engineer	Date
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Approved \_\_\_\_\_  
District Engineer Date



## NOTICE OF LOCATION AND DESIGN APPROVAL

STP-0005-00 (831) Laurens County  
P.I. Number 0005831

Notice is hereby given in compliance with Georgia Code 22-22-109 that the Georgia Department of Transportation has approved the Location and Design of the above project.

The date of location and design approval was MAY 19, 2005  
Date of Approval

The project proposes to realign S.R. 199 along Oakwood Drive to S.R. 29 in the City of East Dublin. Traffic will be maintained on the existing alignments during construction.

Drawings of the proposed project are on file and are available for inspection at the Georgia Department of Transportation.

Daniel P. Smith  
Daniel.Smith@dot.state.ga.us  
611 Firetower Rd.  
Dublin, Georgia 31021

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

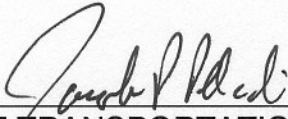
GEORGE M. BREWER  
PRECONSTRUCTION ENGINEER  
P.O. BOX 8  
TENNILLE, GEORGIA 31089  
478-552-4629

Any written request or communication in reference to this project **SHOULD** include the Project and PI numbers as noted at the top of this notice.

PROJECT NUMBER/COUNTY: Relocation of SR 199, Oakwood Drive to SR 29  
STP-0005-00(831), Laurens County

P.I. NUMBER: PI 0005831

This project is not shown in the FY 05 – 07 STIP because the phase(s) PE, ROW  
and CST are outside the three (3) year range of the STIP. This project will be  
added to the STIP when appropriate.



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STATE TRANSPORTATION PLANNING ADMINISTRATOR

DATE: 4-15-05

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
PROJECT CONCEPT REPORT**

*District Two Design Office*

Project Number: *STP-0005-00 (831)*

County: *Laurens*

P. I. Number: *0005831*

Federal Route Number: *None*

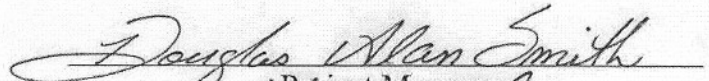
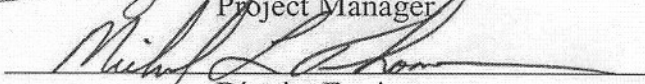
State Route Number: *SR 199*

County Road Number: *None*

Recommendation for approval:

DATE *4-14-05*

DATE *4-14-05*

  
\_\_\_\_\_  
Project Manager  
  
\_\_\_\_\_  
District Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and the State Transportation Improvement Program (STIP).

DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator


DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Programming Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Environmental/Location Engineer

DATE *5-6-05*

  
\_\_\_\_\_  
State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
Project Review Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Bridge & Structural Design Engineer